Lake Boon 2022 Project Update

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Restoring Balance. Enhancing Beauty.







Review of 2021

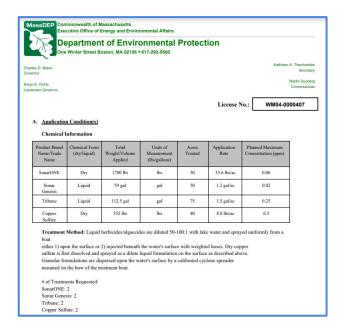


2021 PROGRAM CHRONOLOGY

- Received MA DEP License to Apply Chemicals
- Pre-treatment survey conducted
- Diquat herbicide treatment performed
- Post Treatment survey conducted

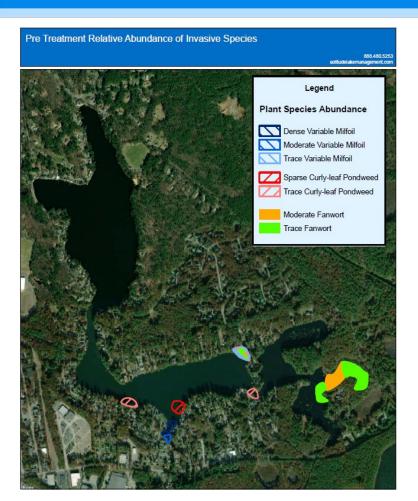


04/02/21 05/07/21 06/02/21 09/08/21



Review of 2021 - Pre-Treatment Survey





- Conducted on May 7th
- Survey data collected at 30 predetermined points
- Presence of curlyleaf pondweed (CLP), variable milfoil and fanwort
- Data used to designate treatment areas (targeting CLP and milfoil)

Review of 2021 - Herbicide Treatment

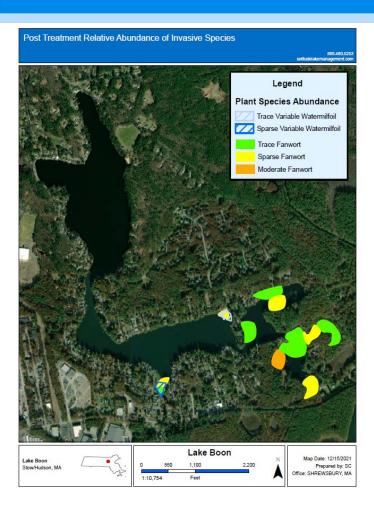




- Conducted on June 2nd
- Treated 30 acres with diquat herbicide
- Used 44 gallons of Tribune (diquat)

Review of 2021 - Post-Treatment Survey





- Conducted on September 8th
- General littoral zone survey and collected at 30 predetermined points
- Observed expanding fanwort in Basin 3 & 4 with varying density
- Fanwort and sparse milfoil in Monahan's Cove and Hale Road Cove

What's New for 2022?



- Healthy Lake Boon Initiative (HLBI)
 - Collaborate to adjust treatment approach/plan
 - Use data and model to assist in evaluating plant management
- Add more defined data points (>30)
- Start treatments early when biomass is low and plants are more sensitive
- Multiple survey events, reports and updates (early, mid, late)

2022 Plan



- Obtain MassDEP Permit
- Vegetation Surveys
 - Pre Survey (May)
 - Mid Season (July)
 - Post Survey (September)
- Herbicide Treatment
 - Sonar (fluridone) for fanwort
 - Tribune (diquat) for milfoil/CLP
- Reporting

- Based on pre-survey
- Target CLP and milfoil outside Sonar treatment areas

- Littoral Zone & Predetermined Points
- Measurement of water clarity (Secchi disk) and temperature/dissolved oxygen profile

- Sonar Treatment in Basin 2 Coves,
 Basin 3 & 4 Based on 2021 Post
 Survey and historical patterns
- Initial and 2-3 booster applications
- Interim Surveys & Sampling
- Timing
 - Late April/Early May start
 - Will not necessarily wait for pre survey
 - Booster treatments 3-6 weeks apart

Questions?





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